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# RELIABILITY PREDICTION

**Model : S-240** Data:2000-01-05

| Style | Part Type | Q'ty | $\lambda_g$ | $\pi_Q$ | $\lambda_{eg}$ | % |
|---|---|---|---|---|---|---|
| 9.1 | Resistor-Film, Insulated (RL) | 53 | 0.003700 | 10 | 1.961000 | 35.176 |
| 9.1 | Resistor-Wirewound Power (RW) | 1 | 0.008500 | 10 | 0.085000 | 1.525 |
| 9.1 | Resistor-Film, Variable (RVC) | 1 | 0.040000 | 10 | 0.400000 | 7.175 |
| 9.1 | Resistor-Thermistor (RTH) | 1 | 0.001400 | 10 | 0.014000 | 0.251 |
| 10.1 | Capacitor-Metal, Plastic (CH) | 12 | 0.000510 | 10 | 0.061200 | 1.098 |
| 10.1 | Capacitor-Ceramic(Gen.) (CK) | 15 | 0.001700 | 10 | 0.255000 | 4.574 |
| 10.1 | Capacitor-Aluminum Dry (CE) | 13 | 0.001300 | 10 | 0.169000 | 3.032 |
| 6.1 | Diode-Gen. Purpose Analog | 1 | 0.003600 | 8 | 0.028800 | 0.517 |
| 6.1 | Diode-Switching | 11 | 0.000940 | 8 | 0.082720 | 1.484 |
| 6.1 | Diode-Fast Recovery Power Rectifier | 4 | 0.023000 | 8 | 0.736000 | 13.202 |
| 6.1 | Diode-Power Rectifier / Schottky Power | 4 | 0.002800 | 8 | 0.089600 | 1.607 |
| 6.1 | Diode-Voltage Ref/Reg. (Avalanche & Zener) | 6 | 0.003300 | 8 | 0.158400 | 2.841 |
| 6.1 | Diode-Transient Suppressor/Varistor | 2 | 0.002900 | 8 | 0.046400 | 0.832 |
| 6.10 | Diode-Thyristor/SCR | 1 | 0.002500 | 8 | 0.020000 | 0.359 |
| 6.3 | Transistor-NPN/PNP | 5 | 0.000150 | 8 | 0.006000 | 0.108 |
| 6.4 | Transistor-MOSFET | 2 | 0.014000 | 8 | 0.224000 | 4.018 |
| 6.11 | OPTO-isolator | 2 | 0.027000 | 8 | 0.432000 | 7.749 |
| 6.11 | OPTO-Emitter | 1 | 0.000470 | 8 | 0.003760 | 0.067 |
| 5.1 | Linear Microcircuits | 5 | 0.009500 | 10 | 0.475000 | 8.521 |
| 11.1 | Transformer Switching | 1 | 0.000610 | 3 | 0.001830 | 0.033 |
| 11.2 | Coil Fixed inductor or choke | 4 | 0.000032 | 3 | 0.000384 | 0.007 |
| 15.1 | Connector- Rectangular | 2 | 0.050000 | 2 | 0.200000 | 3.588 |
| 17.1 | Single Connections-Reflow solder | 383 | 0.000069 | 1 | 0.026427 | 0.474 |
| 17.1 | Fuses Clip-Clip Termination | 2 | 0.000120 | 1 | 0.000240 | 0.004 |
| 22.1 | Fuses | 1 | 0.010000 | 1 | 0.010000 | 0.179 |
| 16.1 | Plated Through Hole Circuit Boards | 2 | 0.022000 | 2 | 0.088000 | 1.579 |
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| **Total Failure rate:** | | | | | 5.574761 | 100% |

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

**MTBF:** 179379.89 **hrs**

Approved by: David Wang Compiled by: Kim Tseng